

System and Method for Multi-path Simulation

Abstract of the Disclosure

5 The present invention provides a system and method for multi-path simulation that employs a shielded anechoic chamber to avoid external electromagnetic interference and other uncontrollable transmission paths during testing, and simulates a main indirect transmission path by a reflector within the chamber. An attenuating device is used to attenuate signals,
10 thereby simulating the signal attenuation during transmission. The shielded anechoic chamber also includes a movable platform and a turntable, both controlled by a control unit, for carrying a dipole antenna and a wireless communication device to be tested respectively. The movable platform is used to shift the antenna, thereby simulating the phase shift between a direct
15 path and a main indirect path of the system; the turntable is used to change the reception azimuth of the communication device, thereby measuring the performance of the device in various azimuth angles.